

# EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	10/799323	US-PGPUB; USPAT	OR	ON	2006/12/28 14:51
S2	16	((DAE-WOONG) near2 (KIM)).INV.	US-PGPUB; USPAT	OR	ON	2006/12/27 16:25
S3	14	((SOO-WOONG) near2 (LEE)).INV.	US-PGPUB; USPAT	OR	ON	2006/12/27 16:25
S4	12	((DAE-WOONG) near2 (KIM)).INV.	EPO; JPO; DERWENT	OR	ON	2006/12/27 16:25
S5	7	((SOO-WOONG) near2 (LEE)).INV.	EPO; JPO; DERWENT	OR	ON	2006/12/27 16:26
S6	16	((DAE-WOONG) near2 (KIM)).INV.	US-PGPUB; USPAT	OR	ON	2006/12/28 10:44
S7	14	((SOO-WOONG) near2 (LEE)).INV.	US-PGPUB; USPAT	OR	ON	2006/12/28 10:44
S8	27	S6 or S7	US-PGPUB; USPAT	OR	ON	2007/01/05 10:19
S9	12	((DAE-WOONG) near2 (KIM)).INV.	EPO; JPO; DERWENT	OR	ON	2006/12/28 10:48
S10	7	((SOO-WOONG) near2 (LEE)).INV.	EPO; JPO; DERWENT	OR	ON	2006/12/28 10:48
S11	16	S9 or S10	EPO; JPO; DERWENT	OR	ON	2006/12/28 10:48
S12	23671	"frame synchronization" or (frame adj sync\$12) or (frame near2 sync\$12)	US-PGPUB; USPAT	OR	ON	2006/12/28 11:07
S14	5137	"EFM" or (eight near2 fourteen near2 modulat\$5)	US-PGPUB; USPAT	OR	ON	2006/12/28 10:56
S19	3167138	detect\$4 or identifi\$5 or determin\$4	US-PGPUB; USPAT	OR	ON	2006/12/28 11:06
S20	3121	S12 near2 S19	US-PGPUB; USPAT	OR	ON	2006/12/28 11:07
S21	14682	"frame synchronization" or (frame adj sync\$12)	US-PGPUB; USPAT	OR	ON	2006/12/28 11:18
S22	2306	S21 near2 S19	US-PGPUB; USPAT	OR	ON	2006/12/28 11:07
S23	1793	S21 near2 detect\$4	US-PGPUB; USPAT	OR	ON	2006/12/28 11:08
S24	1353	S21 near2 generat\$4	US-PGPUB; USPAT	OR	ON	2006/12/28 11:08
S25	421	S23 and S24	US-PGPUB; USPAT	OR	ON	2006/12/28 11:09
S26	72	S25 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/12/28 11:18
S27	338	("frame synchronization" or (frame adj sync\$12)).ti.	US-PGPUB; USPAT	OR	ON	2006/12/28 11:18

## EAST Search History

S28	6	S27 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/12/28 11:22
S29	225	sub near2 S21	US-PGPUB; USPAT	OR	ON	2006/12/28 11:22
S30	99	S29 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/12/28 11:22
S31	70	sub adj S21	US-PGPUB; USPAT	OR	ON	2006/12/28 12:56
S32	1	S31 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/12/28 11:22
S33	5572	S21 near2 (signal or generat\$4)	US-PGPUB; USPAT	OR	ON	2006/12/28 12:57
S35	4102	S21 adj (signal or generat\$4)	US-PGPUB; USPAT	OR	ON	2006/12/28 12:57
S36	15	(sub or main) adj S35	US-PGPUB; USPAT	OR	ON	2006/12/28 12:57
S37	8989	S21 with (signal or generat\$4 or detect\$4)	US-PGPUB; USPAT	OR	ON	2006/12/28 14:52
S38	859	S37 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/12/28 14:52
S39	519	S38 and S14	US-PGPUB; USPAT	OR	ON	2006/12/28 14:52
S40	300	S39 and sub	US-PGPUB; USPAT	OR	ON	2006/12/28 14:53
S41	18	S40 and (valid or invalid)	US-PGPUB; USPAT	OR	ON	2006/12/28 14:55
S42	339	369/53.34.ccls.	US-PGPUB; USPAT	OR	ON	2006/12/28 14:56
S43	417	369/47.28.ccls.	US-PGPUB; USPAT	OR	ON	2006/12/28 14:56
S44	154	369/59.26.ccls.	US-PGPUB; USPAT	OR	ON	2006/12/28 14:56
S45	65	369/47.18.ccls.	US-PGPUB; USPAT	OR	ON	2006/12/28 14:56
S46	889	S42 or S43 or S44 or S45	US-PGPUB; USPAT	OR	ON	2006/12/28 14:56
S47	157	S21 and S46	US-PGPUB; USPAT	OR	ON	2006/12/28 14:57
S48	16	((DAE-WOONG) near2 (KIM)).INV.	US-PGPUB; USPAT	OR	ON	2007/01/05 10:19
S49	14	((SOO-WOONG) near2 (LEE)).INV.	US-PGPUB; USPAT	OR	ON	2007/01/05 10:19
S50	27	S48 or S49	US-PGPUB; USPAT	OR	ON	2007/01/05 10:19
S51	6	S50 and sync\$12	US-PGPUB; USPAT	OR	ON	2007/01/05 10:19

### EAST Search History

S52	12	((DAE-WOONG) near2 (KIM)).INV.	EPO; JPO; DERWENT	OR	ON	2007/01/05 10:19
S53	7	((SOO-WOONG) near2 (LEE)).INV.	EPO; JPO; DERWENT	OR	ON	2007/01/05 10:19
S54	16	S52 or S53	EPO; JPO; DERWENT	OR	ON	2007/01/05 10:19
S55	0	S54 and sync\$12	US-PGPUB; USPAT	OR	ON	2007/01/05 10:19
S56	0	("2004/0184379").URPN.	USPAT	OR	ON	2007/01/05 10:20

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S2	30185	(sync\$12 near2 signal) with detect\$4	US-PGPUB; USPAT	OR	ON	2007/01/03 09:48
S3	1762	(frame near2 sync\$12 near2 signal) with detect\$4	US-PGPUB; USPAT	OR	ON	2007/01/03 09:51
S4	940	(frame near2 sync\$12 near2 signal) near2 detect\$4	US-PGPUB; USPAT	OR	ON	2007/01/04 11:41
S5	134	S4 with demod\$9	US-PGPUB; USPAT	OR	ON	2007/01/03 09:50
S6	5143	eight near2 fourteen near2 modulat\$4 or "EFM"	US-PGPUB; USPAT	OR	ON	2007/01/03 16:29
S7	1596	S6 near2 demod\$9	US-PGPUB; USPAT	OR	ON	2007/01/05 10:07
S8	211	S7 same (frame near2 sync\$12)	US-PGPUB; USPAT	OR	ON	2007/01/05 10:07
S9	153	S7 with (frame near2 sync\$12)	US-PGPUB; USPAT	OR	ON	2007/01/03 16:29
S10	146	S7 same S2	US-PGPUB; USPAT	OR	ON	2007/01/03 11:42
S11	81	S7 with S2	US-PGPUB; USPAT	OR	ON	2007/01/03 10:56
S12	56	(sub or substitute or dual or two or second or mult\$5 or plural\$4) near2 (frame near2 sync\$12 near2 signal) near2 detect\$4	US-PGPUB; USPAT	OR	ON	2007/01/04 11:42
S13	29	("3573359"   "3602828"   "3789380"   "4106058"   "4109236"   "4141046"   "4275466"   "4281356"   "4313136"   "4338683"   "4353130"   "4357707"   "4425646").PN. OR ("RE33665").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/03 10:46
S14	68	S11 not S12	US-PGPUB; USPAT	OR	ON	2007/01/03 10:56
S15	8	("4453260"   "4620300"   "4872155").PN. OR ("4979192").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/03 11:39
S16	63	S10 not (S11 or S12)	US-PGPUB; USPAT	OR	ON	2007/01/03 13:49
S17	97	S9 not (S10 or S11 or S12)	US-PGPUB; USPAT	OR	ON	2007/01/03 15:12
S18	26	S8 not (S9 or S10 or S11 or S12)	US-PGPUB; USPAT	OR	ON	2007/01/03 14:04
S19	86	S5 not (S8 or S9 or S10 or S11 or S12)	US-PGPUB; USPAT	OR	ON	2007/01/03 14:10
S20	272	S16 or S17 or S18 or S19	US-PGPUB; USPAT	OR	ON	2007/01/03 11:44
S21	216	S4 and "369".clas.	US-PGPUB; USPAT	OR	ON	2007/01/03 15:21

## EAST Search History

S22	122	S21 not (S20 or S11 or S12)	US-PGPUB; USPAT	OR	ON	2007/01/03 15:21
S23	7	((frame near2 sync\$12 near2 signal) near2 detect\$4).ti.	US-PGPUB; USPAT	OR	ON	2007/01/03 15:25
S24	418	(frame near2 sync\$12).ti.	US-PGPUB; USPAT	OR	ON	2007/01/03 15:25
S25	39	((frame near2 sync\$12) and detect\$4).ti.	US-PGPUB; USPAT	OR	ON	2007/01/03 15:26
S26	1515	375/354.ccls.	US-PGPUB; USPAT	OR	ON	2007/01/03 16:28
S27	285	S26 and (frame near2 sync\$12)	US-PGPUB; USPAT	OR	ON	2007/01/03 16:31
S28	2570	eight near2 fourteen near2 modulat\$4 or "EFM" and S27	US-PGPUB; USPAT	OR	ON	2007/01/03 16:29
S29	2	S26 and (frame near2 sync\$12) and ((eight near2 fourteen near2 modulat\$4) or "EFM")	US-PGPUB; USPAT	OR	ON	2007/01/03 16:30
S30	6	S26 and (frame near2 sync\$12) and (internal near2 frame)	US-PGPUB; USPAT	OR	ON	2007/01/03 16:32
S31	3	S26 and (internal near2 frame near2 sync\$12)	US-PGPUB; USPAT	OR	ON	2007/01/03 16:32
S32	85	(frame near2 sync\$12 near2 signal) near2 (valid or invalid)	US-PGPUB; USPAT	OR	ON	2007/01/03 16:33
S33	1034	(frame near2 sync\$12 near2 signal) near2 generat\$4	US-PGPUB; USPAT	OR	ON	2007/01/04 15:49
S34	65	(sub or substitute or dual or two or second or mult\$5 or plural\$4) near2 (frame near2 sync\$12 near2 signal) near2 generat\$4	US-PGPUB; USPAT	OR	ON	2007/01/05 08:59
S36	1	(slave) near2 (frame near2 sync\$12 near2 signal) near2 generat\$4	US-PGPUB; USPAT	OR	ON	2007/01/04 11:44
S37	34	(master or main) near2 (frame near2 sync\$12 near2 signal) near2 generat\$4	US-PGPUB; USPAT	OR	ON	2007/01/05 08:59
S38	2	(frame near2 sync\$12 near2 signal near2 generat\$4).ti.	US-PGPUB; USPAT	OR	ON	2007/01/05 08:59
S39	220	(sync\$12 near2 signal near2 generat\$4).ti.	US-PGPUB; USPAT	OR	ON	2007/01/04 14:02
S40	8	(frame near2 sync\$12 near2 generat\$4).ti.	US-PGPUB; USPAT	OR	ON	2007/01/04 13:50
S41	51	S39 and (disk or disc)	US-PGPUB; USPAT	OR	ON	2007/01/04 13:52
S42	1	"6377641"	US-PGPUB; USPAT	OR	ON	2007/01/04 13:52
S43	10	S39 and "369".clas.	US-PGPUB; USPAT	OR	ON	2007/01/04 14:02
S44	32	S39 and "375".clas.	US-PGPUB; USPAT	OR	ON	2007/01/04 14:03
S45	5149	eight near2 fourteen near2 modulat\$4 or "EFM"	US-PGPUB; USPAT	OR	ON	2007/01/04 14:14

## EAST Search History

S46	72	S33 and S45	US-PGPUB; USPAT	OR	ON	2007/01/04 14:14
S47	74	(frame near2 sync\$12 near2 signal) same "CLV"	US-PGPUB; USPAT	OR	ON	2007/01/04 15:51
S48	45	(frame near2 sync\$12 near2 signal) same ("CLV" near2 control\$5)	US-PGPUB; USPAT	OR	ON	2007/01/04 15:52
S49	288	(frame near2 sync\$12 near2 signal near2 generat\$4)	EPO; JPO	OR	ON	2007/01/05 09:02
S50	20	(sub or substitute or dual or two or second or mult\$5 or plural\$4) near2 (frame near2 sync\$12 near2 signal) near2 generat\$4	EPO; JPO	OR	ON	2007/01/05 09:00
S51	2	(master or main) near2 (frame near2 sync\$12 near2 signal) near2 generat\$4	EPO; JPO	OR	ON	2007/01/05 09:00

# EAST Search History

S52	100	(US-6160773-\$ or US-6114890-\$ or US-5959692-\$ or US-6078514-\$ or US-4849818-\$ or US-5247470-\$ or US-5757575-\$ or US-6002709-\$ or US-6002710-\$ or US-6154487-\$ or US-6236428-\$ or US-4319207-\$ or US-4323915-\$ or US-4393273-\$ or US-4780885-\$ or US-4811126-\$ or US-4833385-\$ or US-4929917-\$ or US-4998522-\$ or US-5212690-\$ or US-5218437-\$ or US-5276704-\$ or US-5422917-\$ or US-5450573-\$ or US-5526393-\$ or US-5583574-\$).did. or (US-5646521-\$ or US-5682157-\$ or US-5748124-\$ or US-5802120-\$ or US-5854592-\$ or US-5894494-\$ or US-5991281-\$ or US-6014548-\$ or US-6031476-\$ or US-4262258-\$ or US-4326282-\$ or US-4339819-\$ or US-4351064-\$ or US-4357658-\$ or US-4429384-\$ or US-4495950-\$ or US-4500993-\$ or US-4543657-\$ or US-4578705-\$ or US-4766865-\$ or US-4794626-\$ or US-4876683-\$ or US-4910754-\$ or US-4999825-\$ or US-5021887-\$ or US-5187699-\$ or US-5199050-\$).did. or (US-5260967-\$ or US-5309440-\$ or US-5345467-\$ or US-5388102-\$ or US-5410568-\$ or US-5410572-\$ or US-5446552-\$ or US-5519389-\$ or US-5528241-\$ or US-5528635-\$ or US-5570388-\$ or US-5572529-\$ or US-RE35402-\$ or US-5612980-\$ or US-5615177-\$ or US-5673252-\$ or US-5673296-\$ or US-5793434-\$ or US-5812497-\$ or US-5815691-\$ or US-5838386-\$ or US-5844619-\$ or US-5844869-\$ or US-5859861-\$ or US-5870595-\$ or US-5889269-\$ or US-5907576-\$).did. or (US-5920897-\$ or US-5930697-\$ or US-5935257-\$ or US-5939947-\$ or US-5959935-\$ or US-5960011-\$ or US-RE36339-\$ or US-5987080-\$ or US-5998955-\$ or US-6041021-\$ or US-6058152-\$ or US-6060923-\$ or US-6066969-\$ or US-6078304-\$ or US-6088382-\$ or US-6169536-\$ or US-6173380-\$ or US-6184813-\$ or US-6204725-\$ or US-6226768-\$).did.	USPAT	OR	ON	2007/01/05 10:06
S53	100	S52 and sync\$12	US-PGPUB; USPAT	OR	ON	2007/01/05 10:13
S54	21	S52 and (frame near2 sync\$12)	US-PGPUB; USPAT	OR	ON	2007/01/05 10:08
S55	39	S52 and (generat\$4 near2 sync\$12)	US-PGPUB; USPAT	OR	ON	2007/01/05 10:08

### EAST Search History

S56	48	S54 or S55	US-PGPUB; USPAT	OR	ON	2007/01/05 10:08
S57	6	S52 and "369".clas.	US-PGPUB; USPAT	OR	ON	2007/01/05 10:13
S58	42	S52 and "375".clas.	US-PGPUB; USPAT	OR	ON	2007/01/05 10:14